Heat stress

* Importance
* Quantify ***insult*** of heat stress
  + Daily THI, THI load, time of day + evening cool down, duration, subsequent episodes
  + Comparison across farms – within vs between farms: strategies implemented for hea stress mitigation
* Quantify heat stress effect on milk yield / what phenotype are we looking for:
  + Severity of effect at the moment of high THI
  + Duration, time lagged effects
  + METHOD: perturbation, LMM, relative losses
  + Relation with previously present health problems
  + Relation with health problems afterwards
  + Analysis for specific LS (transition) or
* Quantify heat stress effect on behavior / is behavior a proxy for effect on milk production :
  + Feature design – activity-based indicators for heat stress
  + Relation milk production and activity – order of effect, covariates, interactions
* Other parameters: health, scc, fertility/calving,…